METHOD AND APPARATUS OF CONTROLLING DATA DELIVERY IN A WIRELESS COMMUNICATION SYSTEM FOR DIGESTING DATA UNITS OUTSIDE A RECONFIGURED TRANSMITTING WINDOW AND A RECONFIGURED RECEIVING WINDOW

Abstract

A method according to the present invention blocks a sender from processing SDUs required to be transmitted through a radio bearer when a memory block corresponding to the radio bearer is full, and guarantees that every PDUs received by a receiver can be accommodated in a memory block corresponding to a new radio bearer. With regard to data transmission, after a transmitting buffer is reconfigured, PDUs required to be transmitted through a previously established radio bearer are kept and gradually received by the receiver. A new radio bearer is guaranteed to gradually take control of these occupied storage space. With regard to data reception, the receiver outputs WINDOW SUFIs to the sender

for dynamically tuning a transmission window size for the new radio bearer so that PDUs transmitted from the sender will never be discarded. To sum up, radio transmission efficiency is greatly improved, and data throughput is optimized.